OFFICIAL FILE

ILL. C. C. DOCKET NO. 02 0002

Diferences Exhibit No. _

ALUMINUM WIRE TABLE

Witness								
						Date S	100C	Reporter
Size	_		Nominal	Weight	Ultimate	Normal	Emerg.	}
AWG/	•		O.D.	ib./	Strength	Rating	Rating	Code
KCM	Туре	Strand	(in)	∘K-ft.	(lb.)	(Amps)	(Amps)	Name
4	ACSR	7/1	0.257	67	2360	108	150	Swanate
2	ACSR	7/1	0.325	107	3640	142	201	Sparate
1/0	ACSR	6/1	0.398	145	4380	186	266	Raven
1/0	AAAC	7	0.518	166	4010	192	282	Oilnut-XLP
2/0	ACSR	6/1	0.447	183	5310	213	307	Quail
3/0	ACSR	6/1	0.502	231	6620	244	355	Pigeon
4/0	ACSR	6/1	0.563	291	8350	280	411	Penguin
110.8	ACSR/EHS	12/7	- 0.481	305	11300	202	292	Minorca
266.8	ACSR	26/7	0.642	367	11300	322	478	Partridge
336.4	ACSR	18/1	0.684	365	8680	364	543	Merlin
335.6	ACSR/T-2	6/1	1.004	462	13240	351	538	T-2 Pigeon
397.5	AAC	19	0.852	469	6400	399	607	Molles-XLP
477	ACSR	18/1	0.814	518	11800	447	677	Pelican
559.5	ACAR	12/7	0.858	525	13810	466	725	
	AWG/ KCM 4 2 1/0 1/0 2/0 3/0 4/0 110.8 266.8 336.4 335.6 397.5 477	AWG/ KCM Type 4 ACSR 2 ACSR 1/0 ACSR 1/0 AAAC 2/0 ACSR 3/0 ACSR 4/0 ACSR 4/0 ACSR 110.8 ACSR/EHS 266.8 ACSR 336.4 ACSR 335.6 ACSR/T-2 397.5 AAC 477 ACSR	AWG/ KCM Type Strand 4 ACSR 7/1 2 ACSR 7/1 1/0 ACSR 6/1 1/0 AAAC 7 2/0 ACSR 6/1 3/0 ACSR 6/1 4/0 ACSR 6/1 110.8 ACSR/EHS 12/7 266.8 ACSR 26/7 336.4 ACSR 18/1 397.5 AAC 19 477 ACSR 18/1	AWG/KCM Type Strand O.D. (in) 4 ACSR 7/1 0.257 2 ACSR 7/1 0.325 1/0 ACSR 6/1 0.398 1/0 AAAC 7 0.518 2/0 ACSR 6/1 0.447 3/0 ACSR 6/1 0.502 4/0 ACSR 6/1 0.563 110.8 ACSR/EHS 12/7 0.481 266.8 ACSR 26/7 0.642 336.4 ACSR 18/1 0.684 335.6 ACSR/T-2 6/1 1.004 397.5 AAC 19 0.852 477 ACSR 18/1 0.814	AWG/KCM Type Strand O.D. (in) ib./ K-ft. 4 ACSR 7/1 0.257 67 2 ACSR 7/1 0.325 107 1/0 ACSR 6/1 0.398 145 1/0 AAAC 7 0.518 166 2/0 ACSR 6/1 0.447 183 3/0 ACSR 6/1 0.502 231 4/0 ACSR 6/1 0.563 291 110.8 ACSR/EHS 12/7 0.481 305 266.8 ACSR 26/7 0.642 367 336.4 ACSR 18/1 0.684 365 335.6 ACSR/T-2 6/1 1.004 462 397.5 AAC 19 0.852 469 477 ACSR 18/1 0.814 518	Size AWG/KCM Type Strand (in) Weight (lb.) Ultimate Strength (lb.) 4 ACSR 7/1 0.257 67 2360 2 ACSR 7/1 0.325 107 3640 1/0 ACSR 6/1 0.398 145 4380 1/0 AAAC 7 0.518 166 4010 2/0 ACSR 6/1 0.447 183 5310 3/0 ACSR 6/1 0.502 231 6620 4/0 ACSR 6/1 0.563 291 8350 110.8 ACSR/EHS 12/7 0.481 305 11300 266.8 ACSR 26/7 0.642 367 11300 336.4 ACSR 18/1 0.684 365 8680 335.6 ACSR/T-2 6/1 1.004 462 13240 397.5 AAC 19 0.852 469 6400 477 ACSR 18/1 </td <td>Size AWG/ KCM Type Strand Strand Nominal (in) Weight K-ft. Ultimate Strength (lb.) Normal Rating (Amps) 4 ACSR 7/1 0.257 67 2360 108 2 ACSR 7/1 0.325 107 3640 142 1/0 ACSR 6/1 0.398 145 4380 186 1/0 AAAC 7 0.518 166 4010 192 2/0 ACSR 6/1 0.447 183 5310 213 3/0 ACSR 6/1 0.502 231 6620 244 4/0 ACSR 6/1 0.563 291 8350 280 110.8 ACSR/EHS 12/7 0.481 305 11300 202 266.8 ACSR 26/7 0.642 367 11300 322 336.4 ACSR 18/1 0.684 365 8680 364 337.5 AAC 19 0.852<td>Size AWG/ KCM Type Strand Strand O.D. (in) K-ft. (lb.) Strength (Amps) (Asign) (Asign) (Asign) (Asign) (Asign) (Asign) (A</td></td>	Size AWG/ KCM Type Strand Strand Nominal (in) Weight K-ft. Ultimate Strength (lb.) Normal Rating (Amps) 4 ACSR 7/1 0.257 67 2360 108 2 ACSR 7/1 0.325 107 3640 142 1/0 ACSR 6/1 0.398 145 4380 186 1/0 AAAC 7 0.518 166 4010 192 2/0 ACSR 6/1 0.447 183 5310 213 3/0 ACSR 6/1 0.502 231 6620 244 4/0 ACSR 6/1 0.563 291 8350 280 110.8 ACSR/EHS 12/7 0.481 305 11300 202 266.8 ACSR 26/7 0.642 367 11300 322 336.4 ACSR 18/1 0.684 365 8680 364 337.5 AAC 19 0.852 <td>Size AWG/ KCM Type Strand Strand O.D. (in) K-ft. (lb.) Strength (Amps) (Asign) (Asign) (Asign) (Asign) (Asign) (Asign) (A</td>	Size AWG/ KCM Type Strand Strand O.D. (in) K-ft. (lb.) Strength (Amps) (Asign) (Asign) (Asign) (Asign) (Asign) (Asign) (A

CROSSLINKED POLY MULTIPLEX CABLE

									T
					100C				
				75C	4 Нг				
3tock				Normal	Emerg.	Ultimate	Equiv.	Weight	
Code	Size			Rating	Rating	Strength	O.D.	lb./	Code
lumber	AWG	Туре	Strand	(Amps)	(Amps)	(lb.)	(in)	K-ft.	Name
11 10910	4	Duplex	7	92	128	1760	0.565	105	Whippet
11 11110	4	Triplex	7	92	128	1760	0.64	165	Barnacle
11 11410	1/0	Triplex	7	162	229	4460	0.98	400	Gammarus
11 11480	4/0	Triplex	19	244	352	8560	1.32	746	Lepas
11 11730	4	Quadruplex	7	80	112	1760	0.72	224	Arabian
11 11880	1/0	Quadruplex	19	139	200	4460	1.11	542	Shetland
11 12440	4/0	Quadruplex	19	210	307	8560	1.49	1004	Walking

lotes:

- . Current ratings calculated with the following parameters: ambient temp. = 40C; wind = 2 ft./sec. normal to wire; emmissivity = 0.9; solar absorptivity = 1.0. (EPRI Dynamp Program)
- . Multiplex neutrals and power conductors are the same size. Neutrals are 7 strand.
- . Equivalent O.D. for multiplex includes insulation (45 mils for #4 and 60 mils for 1/0 and 4/0).
- . AAAC and multiplex neutrals are Aluminum Alloy 6201-T81; AAC and compressed multiplex power conductors are Aluminum Alloy 1350-H19.
- . Resistance and reactance are covered by DS 3030.

DEFENDANT'S EXHIBIT

ATE 12-96

DS3026

CONDUCTOR DATA **ALUMINUM WIRE & MULTIPLEX CABLE** CENTRAL ILLINOIS PUBLIC SERVICE CO.

DISTRIBUTION STANDARD